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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2022-2024 |  TSAG-TD513 |
|  TSAG |
|  Original: English |
| **Question(s):** | N/A |  Geneva, 29 July - 2 August 2024 |
| **TD** |
| **Source:** | Chair, WP2/TSAG |
| **Title:** | Report of the meeting of WP2/TSAG “Industry Engagement, Work Programme, Restructuring” (Geneva, 29 July - 2 August 2024) |
| **Contact:** | Gaëlle Martin-Cocher InterDigital Canada | E-mail: Gaelle.Martin-Cocher@InterDigital.com |
| **Contact:** | Guy-Michel Kouakou Côte d'Ivoire | E-mail: kouakou.guy-michel@artci.ci |
| **Contact:**  | Tatiana KurakovaTSB; Secretary WP2 | E-mail: tatiana.kurakova@itu.int |

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| **Abstract:** | This TD represents the report of the WP2/TSAG meeting held in Geneva on 29 July - 2 August 2024. |

**Action**: Review, approval, follow up on requests for action in clause 0.

**0 Actions for TSAG**

Actions related to RG-WPR

1. **WP2-1:** WP2 agree to:
	1. include attachments 1, 2 and 3 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) in the TSAG report to WTSA-24 concerning the consolidation of Study Groups 9 and 16 into new Study Group C (SGC) with the updated title "*Technologies for multimedia, content delivery and cable television"*, noting the contentious sentence “In developing its studies, Study Group C will take into consideration societal and ethical aspects of intelligent applications.” in Attachment 1, *clause* B.2.
	2. Include TD677 “list of SGC Questions” in the TSAG report to WTSA-24 for information
	3. provides SGC with attachment 4 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) for their consideration after WTSA-24.
2. **WP2-2:** WP2 instructs SG9 and SG15 chairs to proceed with the transfer of the Recommendations J.185 and J.186 at their earliest possibility.

Actions related to RG-IEM

3. **WP2-3**: Approve Action plan for a vibrant engagement of the industry, [TD624-R2](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0624/en) and agree to attached this action plan in an annex of the TSAG report and to include the action plan in the TSAG report to WTSA-24

**4. WP2-4:** Recommend for implementation *the Industry Engagement workshop* actions, [TD667-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0667/en)

**5. RG-IEM-1**: Approve Liaison Statement on TSAG activities on industry engagement, [TD671](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0671/en)

**6. WP2-5:** Agree the revised text of Resolution 68 to form part of the TSAG documents submission to WTSA-24, [TD666-R4](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0666/en)

**7. WP2-6:** Agree the interim activities plan for RG-IEM (clause 7)

Actions related to RG-DT

1. **WP2-7:** Agree to include in the TSAG report to WTSA-24 the proposed new Resolution on Sustainable Digital Transformation in [TD682](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0682/en).
2. **WP2-8:** Agree the interim e-meetings for RG-DT (clause 7)
3. **RG-DT-1**: Approve Liaison Statement on activities and studies on sustainable digital transformation to UPU, Annex 2 of [TD525](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0525/en).
4. **WP2-9**: Per the agreement, reached at the June 2023 TSAG meeting, on the rotation principle of chairing the group, nominate Mr Ahmed Said (Egypt) to be the Rapporteur and Mr Ahmad Sharafat (Iran) - the Associate Rapporteur for RG-DT. Ms Cynthia Lesufi (South Africa) remains the Associate Rapporteur RG-DT.

Actions related to FG-MV

1. **WP2-10**: Agree the distribution of the FG-MV Deliverables as shown in [TD670](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0670/en).
2. **WP2-11:** Approve Liaison Statement with guidance on FG-MV Deliverables/outputs treatment [to all ITU-T SGs] - [TD673](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0673/en)

Actions related to WP2

1. **WP2-12:** request TSAG to attach to the TSAG meeting report for information to the regional telecommunications organizations the new proposed Resolution on New and Emerging Technologies from [TD680-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0680/en).
2. **WP2-13:** Recommend continuation of the current TSAG WP2 structure. Invite inputs to review the WP2 and its rapporteur groups terms of references at the first TSAG meeting in the next study period.
3. **WP2-14**: Approve the WP2/TSAG meeting report – TD513 (this document)
4. **General**

The fourth meeting of the TSAG Working Party 2 (**WP-IEWPR**) took place in Geneva on 29 July – 2 August 2024. The meeting was chaired by the WP2 chair, Ms Gaëlle Martin-Cocher (InterDigital, Canada) with the support of Mr Guy-Michel Kouakou (Côte d'Ivoire), WP2/TSAG Vice-chair.

The chair opened the meeting and welcomed the participants. In elaborating her objectives and expectations for this meeting she mentioned four important topics for Working Party 2 and its Rapporteur group. Those are to agree

* the consolidation plan for SGs 9 and 16, to be provided to WTSA
* the outcome of the industry engagement and modifications to resolution 22 and 68 to be provided to WTSA. Modifications to resolution 22 will then be further consolidated by RG-WM.
* A proposal for new Resolution or a way forward on the digital transformation and
* The allocation of the new deliverables from the FG-MV and guidance to enable the Study Group to work on Metaverse related topic.

Agenda for the opening meeting was reproduced in [TSAG-TD511-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0511/en). It was approved by the meeting. Complete list of documents WP2 considered in this meeting may be found in Annex 2 of this report.

Agenda for the closing plenary may be found in [TD512](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0512/en). It was approved as TD512-R1.

1. **Review of the WP2/TSAG virtual interim activities (February – July 2024) and plans for this meeting**
	1. **RG-WPR** *“Rapporteur Group on Work Programme and Restructuring, SG work, SG Coordination”* reportedthe progress in 19 June 2024 interim e-meeting in[TD530](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0530/en).

TD530 was introduced by the RG-WPR Rapporteur, Ms Miho Naganuma. WP2 took a good note of the report and progress achieved.

One of the action for the RG-WPR is the agreed at the last TSAG meeting consolidation of the SGs 9 and 16 details. To this end, the final report of the joint management teams work of SGs 9 and 16 was introduced by the chairs of SG9 and SG16.

Consolidation of SGs 9 and 16 was agreed at the January 2024 TSAG meeting.

WP2 agreed the approach of consolidation by concatenation of the two study groups with progressive consolidation of questions. WP2 agreed the revised title of the SGC “Technologies for multimedia, content delivery and cable television”.WP2 meeting agreed the consolidation of the proposed Qs from SG9 and SG16 to form a set for the new SGC. WP2 deferred the detailed discussion on TD598 (parts of Resolution 2, merged Question on coordination and on accessibility to the RG-WPR discussion).

WP2 agreed that the discussion on the concrete structure of the SGC will be deferred to the next study period and to the Study Group C itself, while the WTSA-24 is better positioned to take the decision on the new SG numbers. During the interventions at the opening plenary several options for the number of the Group C were articulated (7, 9, 16, 24).

The Chair of the Joint Coordination Activity on accessibility and human factors, Ms Andrea Saks, requested (speaking from remote) that the captioning complemented by the sing-language should be provided for the delicate discussion (like about SGs 9 and 16) to support the participation of the people with hearing disabilities.

Russian Federarion raised the issue of the societal and ethical aspects in one of the Question text of SGC. It pointed out that studing these aspects is not in the prevue of ITU-T. The issue was defered to the RG-WPR for further consideration.To complement the above topics on work elaborated by SGs 9 and 16, [TD631](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0631/en) was presented by the SG15 chair, Mr Glenn Parsons. TD is a liaison statement with the opinion of the SG15 that some work from SG9 may be easily and logically accommodated by SG15. TD631 was entrusted to the RG-WPR assessment at this meeting.

* 1. **RG-IEM** *“Rapporteur Group on Industry Engagement, Metrics*” reported its progress to date in 3 virtual interim meetings through

 - progress report [TD529](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0529/en), that was introduced by Mr Glenn Parsons, the Rapporteur for RG-IEM,

 - The Industry Engagement Workshop of 19 April 2024 report [TD599](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0599/en), presented by the workshop steering committee head, Mr Didier Berthoumieux,

 - Updating action plan on industry engagement [TD624](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0624/en), presented by Mr Didier Berthoumieux.

WP2 noted the progress report and recommended implementation of the industry engagement strategic directions, collected by the workshop, in collaboration with RG-SOP.

Approval of *the ITU-T action plan for a vibrant engagement of the industry* was deferred to the closing plenary of WP2.

* 1. **RG-DT** *“Rapporteur Group on Sustainable Digital Transformation”* reported its progress to date in 4 virtual interim meetings through

 - progress report [TD531](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0531/en), that was introduced by Mr Ahmad Sharafat (Iran), the Rapporteur for RG-DT.

WP2 took note of the interim RG-DT meetings and its progress report as well as of the outgoing LSs on the activities on sustainable digital transformation (May 2024), the progress achieved on the gap analysis.

According to the current practice in place the WP2 agreed to rotate the RG-DT chairs, so that Mr Ahmed Said (Egypt) becomes the Rapporteur and Mr Ahmad Sharafat (Iran) - Associate Rapporteur for RG-DT. Ms Cynthia Lesufi (South Africa) remains the Associate Rapporteur RG-DT.

Decision on the draft new Resolution on *Enhancing the standardization activities on Sustainable Digital Transformation* was deferred to after the RG-DT session at this TSAG meeting. RG-DT was charged to look into the draft new Resolution text in view of the material found in C108, TD494, TD614, TD622 and in view of the new BSG program.

1. **Documentation for the meeting**

**3.1 Metaverse**

The meeting followed with interest the presentation of the FG-MV final report, [TD588](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0588/en), given by the group Chair, Mr Shin-Gak Kang (ETRI, Republic of Korea). The report was noted by the meeting.

In addition, the metaverse topic received a number of documents as follows

* Results of interim meetings of the FG-MV and action on their deliverables [TD563](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0563/en), [TD572](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0572/en), [TD587](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0587/en).
* LSs on
* metaverse standardization work, SG16 [**TD570**](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0570/en)**,** SG17 [**TD559**](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0559/en) **,** SG11 [**TD575**](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0575/en)**,**  FG-MV [**TD586**](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0586/en)**, SG5** [TD608](https://www.itu.int/dms_pub/itu-t/md/22/tsag/td/240729/GEN/T22-TSAG-240729-TD-GEN-0608%21%21MSW-E.docx) **, SG2** [TD604](https://www.itu.int/dms_pub/itu-t/md/22/tsag/td/240729/GEN/T22-TSAG-240729-TD-GEN-0604%21%21MSW-E.docx)**, SG20** [TD646](https://www.itu.int/dms_pub/itu-t/md/22/tsag/td/240729/GEN/T22-TSAG-240729-TD-GEN-0646%21%21MSW-E.docx) ([TD644](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0644))
* vocabulary for metaverse FG-MV [TD562](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0562/en),
* definition of CitiVerse FG-MV [TD564](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0564/en)
* Contributions:
	+ Start of the work in SGs: [C105](https://www.itu.int/dms_ties/itu-t/md/22/tsag/c/T22-TSAG-C-0105%21%21MSW-E.docx)
	+ Unfinished documents [C106](https://www.itu.int/dms_ties/itu-t/md/22/tsag/c/T22-TSAG-C-0106%21%21MSW-E.docx)
	+ Allocation of the deliverable: [C115](https://www.itu.int/dms_ties/itu-t/md/22/tsag/c/T22-TSAG-C-0115%21%21MSW-E.docx)

In the interests of time the results of interim meetings of the FG-MV, [TD349](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240122-TD-GEN-0349), [TD361](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240122-TD-GEN-0361), [TD400](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240122-TD-GEN-0400), were noted by the meeting participants via FG-MV progress report.

LS from SGs of the informative nature were briefly introduced and noted by the meeting.

LSs from SG20 and SG11 for action where addressed by Liaison in [TD673](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0673/en).

Contributions on the work of the FG-MV, C105, C106 and C115, attracted live interaction.

Portions of contributions and TDs asking for the allocation of FG-MV Deliverables, were reviewed in the ad-hoc, authorised to have a meeting on 30 July. See clause 4 below for the Ad-hoc outcome.

Regarding the start of the work the conclusion was:

* For *unfinished documents* any interested party can access the document from the public version of the ITU website and develop it further.
* For *completed deliverables*:
1. Study Groups with an existing mandate to commence standardization efforts may establish a new Work Item within their scope.
2. If more than one SG is interested in any of the deliverables and the topic falls within their mandates, they may start the work within their respective scopes. The SGs are encouraged to use the normal collaboration process to ensure no overlaps between the work (e.g. exchange of liaison statements).
3. SGs will report their progress to TSAG as part of their usual activity reports and are requested to identify subjects where overlap is not resolved.
4. The Study Groups identified in the allocation of FG-MV deliverables are welcome to start work based on the deliverable at their discretion. However, it is not mandatory and does not constitute a request from TSAG.
5. SGs interested in starting a work, based on, or taking in account the FG-MV deliverables are requested to thoroughly review the deliverable and conduct a gap analysis to scope the work within the remit of their terms of reference.

The above guidance applies also to the FG-MV deliverables approved before January 2024.

**4 Review of the results of the Rapporteur Groups (29 July – 2 August 2024, Geneva)**

The agreed allocation of the documents to the Rapporteur Groups may be found in Annex 1 of this report for RG-WPR, RG-IEM and RG-DT.

**4.1 TSAG RG-WPR** “Rapporteur Group on Work Programme and Restructuring, SG work, SG Coordination”

The Report of the work accomplished by the TSAG-RG-WPR ([TD523](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0523/en)) was presented by the Rapporteur, Ms Miho Naganuma, NEC Corporation. Report of this RG was revised and approved as TD523-R1.

Key meeting outcomes as presented by the TSAG-RG-WM Rapporteur:

* SGC (consolidation of ITU-T SG9 and SG16). RG-WPR extensively discussed the issues arising from this consolidation and agreed to send attachments 1, 2 and 3 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) to TSAG for inclusion in the TSAG report to WTSA-24 concerning the consolidation of Study Groups 9 and 16 into new Study Group C (SGC) "*Technologies for multimedia, content delivery and cable television"*, noting the contentious sentence “In developing its studies, Study Group C will take into consideration societal and ethical aspects of intelligent applications.” in Attachment 1, *clause* B.2.
* WP2 is also invited to propose to TSAG that it provides SGC with attachment 4 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) for their consideration after WTSA-24.
* With regards to the LS from SG15, [TD631](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0631/en), RG-WPR agreed to invite SG9 and SG15 chairs to proceed with the transfer of the Recommendations J.185 and J.186 from SGC to SG15 (instead of transferring the question) at their earliest possibility.

Actions for TSAG:

* **WP2-1:**
	+ include attachments 1, 2 and 3 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) in the TSAG report to WTSA-24 concerning the consolidation of Study Groups 9 and 16 into new Study Group C (SGC) with the updated title "*Technologies for multimedia, content delivery and cable television"*, noting the contentious sentence “In developing its studies, Study Group C will take into consideration societal and ethical aspects of intelligent applications.” in Attachment 1, *clause* B.2.
	+ Include TD677 “list of SGC Questions” in the TSAG report to WTSA-24 for information
	+ provides SGC with attachment 4 of [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) for their consideration after WTSA-24.
* **WP2-3:** WP2 instructs SG9 and SG15 chairs to proceed with the transfer of the Recommendations J.185 and J.186 at their earliest possibility.

**4.2** **TSAG-RG-IEM** “Rapporteur Group on Industry Engagement, Metrics”

The Rapporteur in charge of the RG-IEM, Mr Glenn Parsons, Ericsson Canada, walked the participants through the meting report of his group found in [TD521](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0521/en). The report was agreed as appears in [TD521](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0521/en).

The key outcomes of the RG-IEM meeting, as highlighted by the Rapporteur:

* Updated ITU-T action plan for a vibrant engagement of the industry - [TD624-R2](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0624/en)
* *Industry Engagement* workshop lessons/actions – [TD667-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0667/en) ([TD599](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0599/en))
* Outgoing LS on TSAG activities on industry engagement - [TD671](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0671/en)
* Resolution 22 status
* Modifications to Resolution 68 – [TD666-R3](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0666/en)

Actions for TSAG:

* **WP2-4**: Approve Action plan for a vibrant engagement of the industry, [TD624-R2](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0624/en) and agree to attached this action plan in an annex of the TSAG report and to include the action plan in the TSAG report to WTSA-24
* **WP2-5:** Recommend for implementation *the Industry Engagement workshop* actions, [TD667-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0667/en)
* **RG-IEM-1**: Approve Liaison Statement on TSAG activities on industry engagement, [TD671](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0671/en)
* **WP2-6:** Agree the revised text of Resolution 68 to form part of the TSAG documents submission to WTSA-24, [TD666-R4](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0666/en)
* **WP2-7:** Agree the interim activities plan for RG-IEM (clause 7)

**4.3** **TSAG RG-DT** “Rapporteur Group on Sustainable Digital Transformation”

The Report of the work accomplished by the TSAG-RG-DT ([TD52](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0525/en)5) was presented by the Rapporteur, Mr Ahmed Said, Egypt. Report of this RG was revised and approved as TD525-R1.

Key meeting outcomes as presented by the TSAG-RG-DT Rapporteur:

* Way forward with new Resolution on *Enhancing the standardization activities on Sustainable Digital Transformation,* [TD681](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0681/en)

Action for TSAG:

* **WP2-8:** Agree to include in the TSAG report to WTSA-24 the proposed new Resolution on Sustainable Digital Transformation in [TD681](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0681/en).
* **RG-DT-1**: Approve Liaison Statement on activities and studies on sustainable digital transformation to UPU, Annex 2 of [TD525](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0525/en).
* **WP2-9:** Agree the interim e-meetings for RG-DT (clause 7)
1. **Review of the ad-hocs results**

**5.1 Ad-hoc group on Metaverse**

An ad-hoc group on metaverse, as appeared in the meeting timeplan ([TD486-R](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0486/en)3) and confirmed by the WP2 opening plenary, met on 30 July 2024. A group, led by the WP2 chair, Ms Gaëlle Martin-Cocher (InterDigital Canada), was tasked to reassess the distribution of the FG-MV Deliverables according to the documents received at this TSAG meeting (C115, TD570 and TD640). Ad-hoc agreed to the allocation of the concluded Deliverables (in the period January – June 2024) as shown in [TD669](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0669/en).

The WP2 closing plenary reviewed the TD669 and agreed on distribution of the FG-MV Deliverables (accomplished in January – June 2024) as appears in the table of TD669 and agreed the Liaison Statement to all ITU-T Study Groups, TD673, calling for using these Deliverables accordingly.

Actions for TSAG:

* **WP2-10**: Agree the distribution of the FG-MV Deliverables as shown in [TD670](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0670/en).
* **WP2-11:** Approve Liaison Statement with guidance on FG-MV Deliverables/outputs treatment [to all ITU-T SGs] - [TD673](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0673/en)

**5 Ad-hoc group on Resolutions**

WP2 run an ad-hoc on review of the Resolutions 22, 68 and new on digital transformation on 1 August lunch time. Mr Glenn Parsons served as convener supported by Ms Gaelle Martin-Cocher.

Results:

- updated Resolution 68 in TD666-R3 (covered in 3.2 above)

 - proposed new Resolution on Digital Transformation in [TD682](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0682/en)

 - proposed new Resolution on New and Emerging Technologies, [TD680-R1](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0680/en)

Action for TSAG:

* **WP2-6**: Agree the text of Resolution 68 as shown in [TD666-R4](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0666/en) (see clause 4.2 above)
* **WP2-12:** request TSAG to attach to the TSAG meeting report for information to the regional telecommunications organizations the new proposed Resolution on New and Emerging Technologies from [TD682](https://www.itu.int/md/T22-TSAG-240729-TD-GEN-0682/en).

**7 Future Plans**

**7.1 Interim meetings**

The WP2 RGs requested the following interim virtual activities to pursue its work:

**RG-IEM** “Rapporteur Group on Industry Engagement, Metrics”

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| **Date, Time** **(Geneva time)** | **Objectives** | **Contribution Deadline** |
| 11 February 202513:00 – 15:00  | Review WTSA-24 outcomes, any other IEM topics | 3 February 2025 |
| 14 April 202513:00 – 15:00 | Review WTSA-24 outcomes, any other IEM topics | 6 April 2025 |

**RG-DT** “Rapporteur Group on Sustainable Digital Transformation”

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| **Date, Time** **(Geneva time)** | **Objectives/Contributions invited on:** | **Contribution Deadline** |
| 10 December 2024 13:00-15:00 | To progress the RG-DT work based on contributions received/1. Finalizing the gap analysis; and
2. Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation
 | 3 December 2024 |
| 29 January 202513:00-15:00 | To progress the RG-DT work based on contributions received/1. Finalizing the gap analysis; and
2. Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation
 | 22 January 2025 |
| 6 March 2025 13:00-15:00 | To progress the RG-DT work based on contributions received/1. Finalizing the gap analysis; and
2. Consider inter alia, definitions, concepts, system architectures, use-cases, fundamental underlying technologies, interoperability, and the ecosystem of digital transformation
 | 27 February 2025 |

This schedule along with the target objectives was agreed by the meeting.

The membership is invited to contribute and take good note of these dates to progress the work efficiently.

**7.2 WP2 mandate**

Accomplished, to be updated in the next study period. Contributions are invited.

The WP2 Rapporteur Groups (WPR, DT and IEM) have successfully accomplished their mandates and proved to be an efficient target vehicle to tackle the arising during the study period issues. This practice is recommended for continuation in the next study period and for achieving this productively the mandates of each TSAG rapporteur group is to be reviewed at the first TSAG meeting after WTSA-24.

**8 Closure**

The WP2 chair extended her appreciation to the members of the WP2/TSAG management team, ad-hoc and evening sessions conveners and all the delegates for the active participation and contributions to the success of the meeting. She also thanked all the delegates, contributors for the engagement and active involvement through the whole length of this study period 2022 - 2024. Thanks went also to all the TSB team supporting this meeting as well as to TSB management, interpreters and captioners.

**Annex 1 -** **List of documents allocated to and considered by**

**WP2 on Industry Engagement, Work Programme, Restructuring (WP-IEWPR)**

Note: the list below doesn’t include the documents produced during the meeting.

# Contributions

| **C#** | **Source** | **Title** | **WP2****(IEWPR)** | **RG-WPR** | **RG-IEM** | **RG-DT** |
| --- | --- | --- | --- | --- | --- | --- |
| [C102](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0102) | Canada | Proposed modifications to Resolution 68 (rev. Hammamet, 2016), The evolving role of industry in ITU-T |  |  | 1 |  |
| [C104](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0104) | Canada | Use of the terms “digital technologies” and “new and emerging technologies” |  |  | 1 |  |
| [C105](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0105) | ETRI | Proposal on considerations when allocating multiple ITU-T Study Groups to FG-MV deliverables | 1 |  |  |  |
| [C106](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0106) | ETRI | Proposal of future actions for work items not completed during the lifetime of ITU FG-MV | 1 |  |  |  |
| [C108](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0108) | Canada; United States | Views on the draft new WTSA Resolution on enhancing the standardization activities on sustainable digital transformation |  |  |  | 1 |
| [C111](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0111) | Broadcom Europe Ltd. | Proposed modifications of WTSA20 Resolution 22 in order to clarify its resolve 5, 6 and 7. |  |  | 1 |  |
| [C112](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0112) | Broadcom Europe Ltd. | Proposed modifications of WTSA20 Resolution 68 based on data analysis in the context of new and emerging telecommunication/ICTs |  |  | 1 |  |
| [C113](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0113) | Broadcom Europe Ltd. | A first set of proposals for a mechanism to address new and emerging telecommunication/ICTs |  |  | 1 |  |
| [C114](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0114) | Broadcom Europe Ltd. | UPU/ITU-T Relationships: identification of untapped opportunities |  |  |  | 1 |
| [C115](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-C-0115) | United States | U.S. views on the allocation of deliverables from the Focus Group on metaverse | 1 |  |  |  |
| *Number of Contributions*  | 3 | 0 | 5 | 2 |

**TDs**

| **TD#** | **Source** | **Title** | **WP2** | **RG-WPR** | **RG-IEM** | **RG-DT** |
| --- | --- | --- | --- | --- | --- | --- |
| [TD504](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0504) | TSB | Statistics regarding ITU-T study group work (position of 2024-07-22) |  |  | 1 |  |
| [TD511](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0511) | Chair, WP2/TSAG | Opening WP2 agenda | 1 |  |  |  |
| [TD512](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0512) | Chair, WP2/TSAG | Closing WP2 agenda | 1 |  |  |  |
| [TD513](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0513) | Chair, WP2/TSAG | WP2 meeting report | 1 |  |  |  |
| [TD520](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0520) | Rapporteur, RG-IEM | Agenda, RG-IEM |  |  | 1 |  |
| [TD521](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0521) | Rapporteur, RG-IEM | Report, RG-IEM |  |  | 1 |  |
| [TD522](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0522) | Rapporteur, RG-WPR | Agenda, RG-WPR |  | 1 |  |  |
| [TD523](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0523) | Rapporteur, RG-WPR | Report, RG-WPR |  | 1 |  |  |
| [TD524](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0524) | Rapporteur, RG-DT | Agenda, RG-DT |  |  |  | 1 |
| [TD525](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0525) | Rapporteur, RG-DT | Report, RG-DT |  |  |  | 1 |
| [TD529](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0529) | Rapporteur, RG-IEM | Progress report from interim TSAG RG-IEM meetings |  |  | 1 |  |
| [TD530](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0530) | Rapporteur, RG-WPR | Progress report of the interim meetings of the TSAG Rapporteur Group on Work Programme and Restructuring, SG work, SG Coordination (RG-WPR) |  | 1 |  |  |
| [TD531](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0531) | Rapporteur, RG-DT | Progress report of the interim TSAG RG-DT meetings (June 2023 to July 2024) |  |  |  | 1 |
| [TD532](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0532) | Chair, ITU-T SG2 | ITU-T SG2 Lead Study Group Report |  | 1 |  |  |
| [TD533](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0533) | Chair, ITU-T Study Group 3 | ITU-T SG3 Lead Study Group Report |  | 1 |  |  |
| [TD534](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0534) | Chair, ITU-T Study Group 5 | ITU-T SG5 Lead Study Group Report |  | 1 |  |  |
| [TD535](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0535) | Chair, ITU-T Study Group 9 | ITU-T SG9 Lead Study Group report |  | 1 |  |  |
| [TD536](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0536) | Chair, ITU-T Study Group 11 | ITU-T SG11 Lead Study Group Report |  | 1 |  |  |
| [TD537](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0537) | Chair, ITU-T Study Group 12 | ITU-T SG12 Lead Study Group Report |  | 1 |  |  |
| [TD538](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0538) | Chair, ITU-T Study Group 13 | ITU-T SG13 Lead Study Group Report |  | 1 |  |  |
| [TD539](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0539) | Chair, ITU-T Study Group 15 | ITU-T SG15 Lead Study Group Report |  | 1 |  |  |
| [TD540](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0540) | Chair, ITU-T SG16 | ITU-T SG16 Lead Study Group Report (January-July 2024) |  | 1 |  |  |
| [TD542](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0542) | Chair, ITU-T SG20 | ITU-T SG20 Lead Study Group Report |  | 1 |  |  |
| [TD558](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0558) | ITU-T SG17 | LS/i on sharing the results of the ITU workshop on "Generative AI: Challenges and Opportunities for security and privacy" and the establishment of the Correspondence Group on AI security (CG-AISEC) [from ITU-T SG17] |  | 1 |  |  |
| [TD559](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0559) | ITU-T SG17 | LS/r on metaverse (reply to TSAG-LS35, FG-MV-LS23) [from ITU-T SG17] | 1 |  |  |  |
| [TD560](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0560) | ITU-T SG17 | LS/i on SG17 Lead Study Group Reports [from ITU-T SG17] |  | 1 |  |  |
| [TD561](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0561) | ITU-T SG13 | LS/i on the use of the term "IMT-2030" within ITU-T [from ITU-T SG13] |  | 1 |  |  |
| [TD562](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0562) | FG-MV | LS/i on vocabulary for metaverse [from FG-MV] | 1 |  |  |  |
| [TD563](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0563) | FG-MV | LS/i on Results of the fifth meeting of the FG-MV [from FG-MV] | 1 |  |  |  |
| [TD564](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0564) | FG-MV | LS/i on definition of CitiVerse [from FG-MV] | 1 |  |  |  |
| [TD568](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0568) | ITU-T SG12 | LS/r on WTSA-24 preparations (reply to TSAG-LS34) [from ITU-T SG12] |  | 1 |  |  |
| [TD570](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0570) | ITU-T SG16 | LS/r on the allocation of deliverables from FG-MV and on metaverse-related issues (TSAG-LS35) [from ITU-T SG16] | 1 |  |  |  |
| [TD572](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0572) | FG-MV | LS/i on Results of the sixth meeting of the FG-MV [from FG-MV] | 1 |  |  |  |
| [TD574](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0574) | ITU-T SG11 | LS/i on initiation of draft new Technical Report TR.SP-UAV "Signalling requirements and protocols between unmanned aerial vehicles and unmanned aerial vehicle controllers using IMT-2020 networks and beyond" [from ITU-T SG11] |  | 1 |  |  |
| [TD575](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0575) | ITU-T SG11 | LS/r on consideration of a new work item ITU-T Q.PMV "Protocol map for metaverse" (reply TSAG-LS35) [from ITU-T SG11] | 1 |  |  |  |
| [TD576](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0576) | ITU-T SG11 | LS/i on SG11 preparations for WTSA-24 [from ITU-T SG11] |  | 1 |  |  |
| [TD579](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0579) | ITU-T SG11 | LS/i on observations concerning future work of ITU-T SG11 for the upcoming study period 2025-2028 [from ITU-T SG11] |  |  | 1 |  |
| [TD584](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0584) | ITU-T SG11 | LS/i progress of SG11 on work item ITU-T Q.TSCA [from ITU-T SG11] |  | 1 |  |  |
| [TD585](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0585) | JCA-QKDN | LS/i on feedback on discussions related to work on quantum-resistance in ITU-T [from JCA-QKDN] |  | 1 |  |  |
| [TD586](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0586) | FG-MV | LS/r on consideration of a new work item ITU-T Q.PMV "Protocol map for metaverse" (reply to SG11-LS159) [from FG-MV] | 1 |  |  |  |
| [TD587](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0587) | FG-MV | LS/i on Results of the seventh and final meeting of the FG-MV [from FG-MV] | 1 |  |  |  |
| [TD588](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0588) | FG-MV | LS/i on the final report of the Focus Group on metaverse (FG-MV) to TSAG [from FG-MV] | 1 |  |  |  |
| [TD592](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0592) | Chair, ITU-T SG9 | ITU-T SG9 preparations for WTSA-24 |  | 1 |  |  |
| [TD594](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0594) | ITU-T SG15 | LS/i on SG15 preparations for WTSA-24 [from ITU-T SG15] |  | 1 |  |  |
| [TD595](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0595) | Chair, ITU-T SG16 | ITU-T SG16 preparations for WTSA-24 |  | 1 |  |  |
| [TD598](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0598) | Chairs, ITU-T SG9 and SG16 | Report of the JMT9&16 on the consolidation of SG9 and SG16 for the next Study Period |  | 1 |  |  |
| [TD599](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0599) | Rapporteur, RG-IEM | Report of Industry Engagement Workshop |  |  | 1 |  |
| [TD604](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0604) | ITU-T SG2 | LS/r on metaverse (reply to TSAG-LS35) [from ITU-T SG2] | 1 |  |  |  |
| [TD605](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0605) | ITU-T SG2 | LS/r on the new work item ITU-T Q.TSCA "Requirements for issuing End-Entity and Certification Authority public-key certificates for enabling trustable signalling interconnection between network entities in support of existing and emerging networks" (reply to SG11-LS156) [from ITU-T SG2] |  | 1 |  |  |
| [TD608](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0608) | ITU-T SG5 | LS/r on "Liaison on metaverse" (reply to TSAG-LS35) [from ITU-T SG5] | 1 |  |  |  |
| [TD617](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0617) | ITU-T SG15 | LS/i on the new version of the Access Network Transport (ANT) Standards Overview and Work Plan [from ITU-T SG15] |  | 1 |  |  |
| [TD618](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0618) | ITU-T SG15 | LS/i on the new version of the Home Network Transport (HNT) Standards Overview and Work Plan [from ITU-T SG15] |  | 1 |  |  |
| [TD619](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0619) | ITU-T SG15 | LS/i on OTNT Standardization Work Plan Issue 34 [from ITU-T SG15] |  | 1 |  |  |
| [TD624](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0624) | Rapporteur, RG-IEM | Draft updated ITU-T action plan for a vibrant engagement of the industry |  |  | 1 |  |
| [TD631](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0631) | ITU-T SG15 | LS/i on potential merger of Q4/9 into Q2/15 [from ITU-T SG15] |  | 1 |  |  |
| [TD632](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0632) | ITU-T SG3 | LS/i on creation of new work item on economic and policy aspects of the provision of high-speed Internet connectivity by retail satellite operators [from ITU-T SG3] |  | 1 |  |  |
| [TD634](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0634) | ITU-T SG3 | LS/r on Proposal for a Joint Working Party on OTT Definitions (reply to SG2-LS101) [from ITU-T SG3] |  | 1 |  |  |
| [TD635](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0635) | ITU-T SG15 | LS/r on initiation of new work item ITU-T Q.FGNS "Signalling requirements for fine-grained network slicing orchestration and management in bearer networks" (reply to SG11-LS176) [from ITU-T SG15] |  | 1 |  |  |
| [TD636](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0636) | ITU-T SG15 | LS/r on SG11 preparation for WTSA-24 (reply to SG11-LS103) [from ITU-T SG15] |  | 1 |  |  |
| [TD637](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0637) | ITU-T SG17 | LS/i on ITU-T Study Group 17 draft Reports to WTSA-24 - PART I: GENERAL and Part II: QUESTIONS for the next study period (2025 - 2028) (SG17 e-plenary, 11-12 July 2024) [from ITU-T SG17] |  | 1 |  |  |
| [TD640](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0640) | Liaison officer to ISO/IEC JTC 1 | Report of the ISO/IEC JTC 1 Plenary (Darwin, Australia, May 2024) |  | 1 |  |  |
| [TD644](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0644) | ITU-T SG20 | LS/r on metaverse (reply to TSAG-LS35) [from ITU-T SG20] | 1 |  |  |  |
| [TD646](http://www.itu.int/md/meetingdoc.asp?lang=en&parent=T22-TSAG-240729-TD-GEN-0646) | ITU-T SG20 | LS/i on initiation of the ITU-T Study Group 20 new work items related to metaverse [from ITU-T SG20] | 1 |  |  |  |
| *Number of TDs*  | 17 | 36 | 7 | 3 |
| ***Overall count of documents*** | 20 | 36 | 12 | 5 |

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